

# Lecture # 10, December 13, 2012

## Dams and Hydropower

1. Role of Hydropower
2. Components of Hydroelectric Plants
  - Elements to generate electricity
  - Hydraulics of turbines
  - Power systems Terms and Definitions
3. Determining Energy potential
  - Hydrologic data
  - Water power equations
  - Turbine characteristics and selection
  - Flow duration method
  - Sequential stream flow-routing method
  - Power rule curves
  - Multipurpose Storage Operation

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